100

Methods and Systems for Off-Loading A-Interface Short Message Service (SMS) Message Traffic in a Wireless Title: Communications Network Applicant(s):
Atty. Dkt. No.: Bantukul et al. 1322/83 128 Receiving MS BSS MSC/VLR 120 STP SMSC STP **MSC/VLR** BSC

> Sending MS

Figure 1

(PRIOR ART)

Title:

Methods and Systems for Off-Loading A-Interface Short Message Service (SMS) Message Traffic in a Wireless Communications Network Title:

Applicant(s): Atty. Dkt. No.:

Bantukul et al. 1322/83

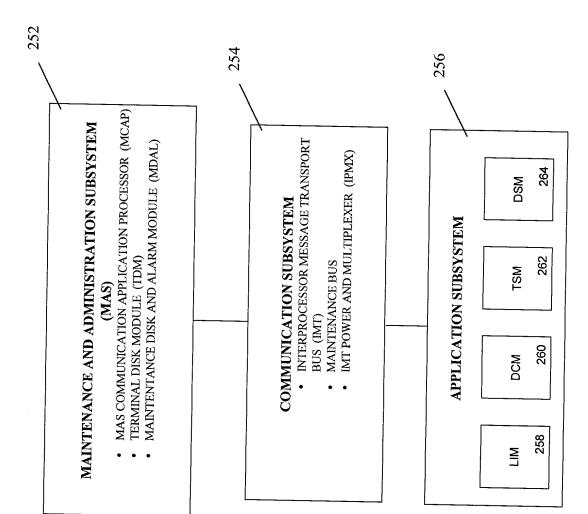
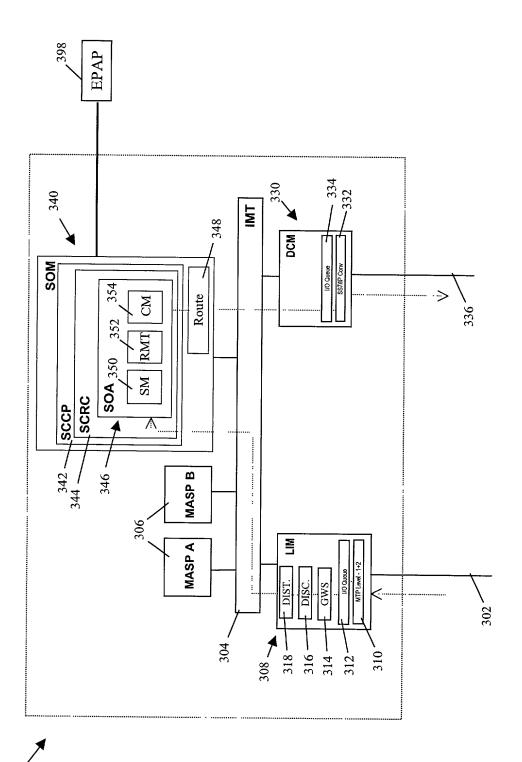


Figure 3 (PRIOR ART)

Methods and Systems for Off-Loading A-Interface Short Message Service (SMS) Message Traffic in a Wireless Communications Network It(s): Bantukul et al. Title:

Applicant(s):
Atty. Dkt. No.: 1322/83

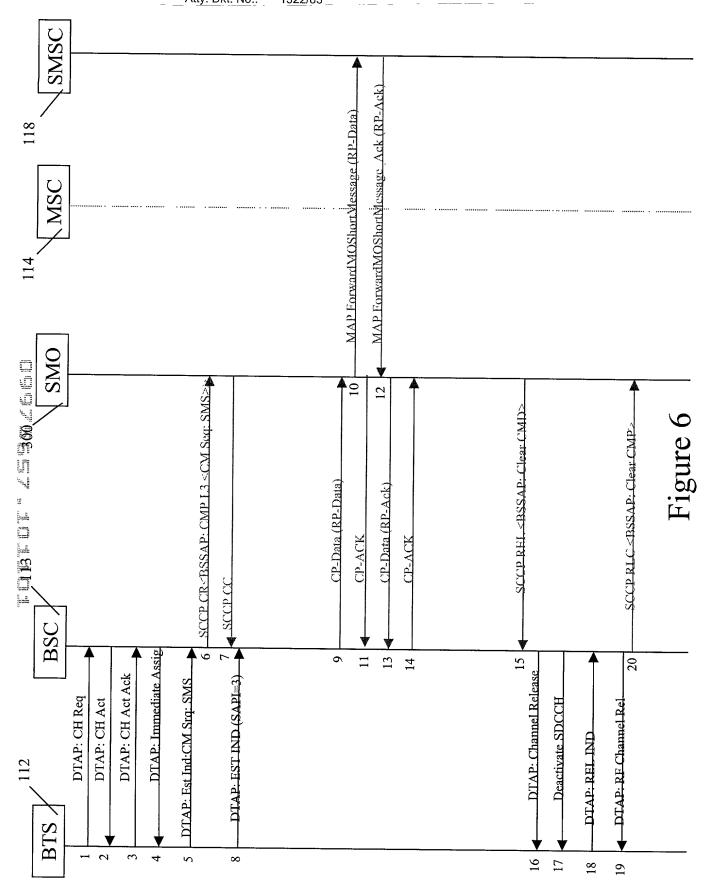


Methods and Systems for Off-Loading A-Interface Short Message Service (SMS) Message Traffic in a Wireless Communications Network Applicant(s): Bantukul et al. SMSC Atty. Dkt. No.: 1322/83 MAP ForwardMOShortMessagk (RP-Data) MAP Forward MOShort Message SCCP REL <BSSAP: Clear CMD> SCCP RLC <BSSAP: Clear CMP> SCCP DT1 <BSSAP: Cipher CMP> SCCP CC <BSSAP: Cipher CMD> SCCP DT1 <BSSAP: Clear Req> SCCP DT1 <BSSAP: Auth Resp> SCCP CC <BSSAP: Auth Req> The state of the s Figure 5 SCCP CR<BSSAP: CMP I.3 <CM Seq: SMS>> 19 22 1131 T. T. T. T. 1211 CP-Data (RP-Data) CP-Data (RP-Ack) CP-ACK BSC DTAP: Immediate Assig <u> 19</u> 16 20 18 21 28 DTAP: Channel Release DTAP: CH Act Ack DTAP: Est Ind:CM Srq: SMS DTAP: EST IND (SAPI=3) DTAP: Encrypt CMD DTAP: Encrypt CMP DTAP: CH Req DTAP: CH Act Deactivate SDCCH DTAP: RF Channel Rel DTAP: Auth Req DTAP: REL IND BTS 2 15 ∞ 6 12 13 25 26 24 27

Title:

Title: Methods and Systems for Off-Loading A-Interface Short Message Service (SMS) Message Traffic in a Wireless Communications Network

Applicant(s): Bantukul et al. Atty. Dkt. No.: 1322/83

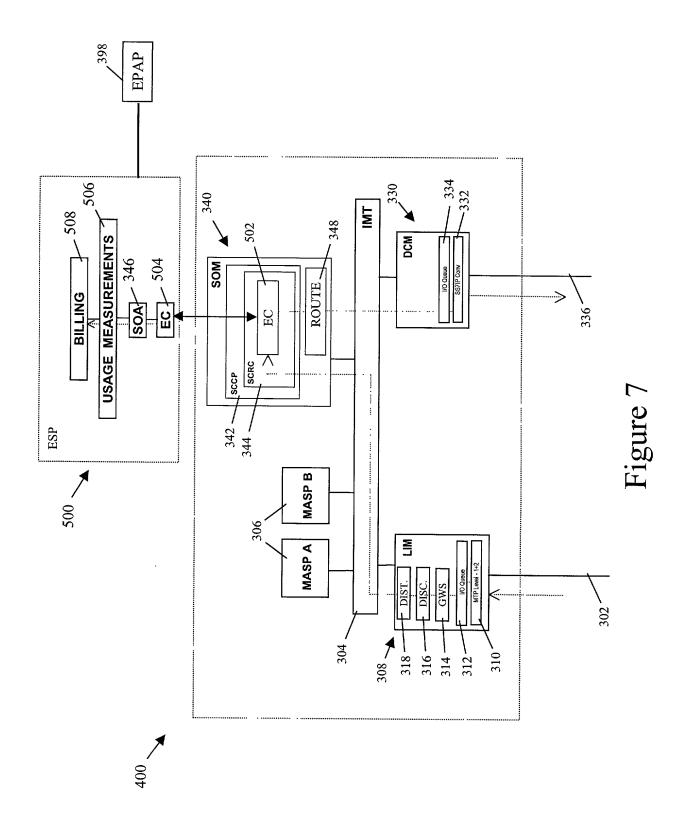


Title:

Methods and Systems for Off-Loading A-Interface Short Message Service (SMS) Message Traffic in a Wireless

Communications Network

Applicant(s):
Atty. Dkt. No.: Bantukul et al. 1322/83



Methods and Systems for Off-Loading A-Interface Short Message Service (SMS) Message Traffic in a Wireless Communications Network Title:

Applicant(s): Atty. Dkt. No.: Bantukul et al. 1322/83

